

# R2RD1T, R2SD1T

## 2"Volta Tunable White - Shallow Regressed Downlight Trim

**WAC**<sup>®</sup>



### PRODUCT DESCRIPTION

Volta 2" Tunable White recessed series represents an innovation in design and technology for architectural lighting. This high lumen and adaptable family of fixtures with a comprehensive set of round and square fittings, affords a sustainable solution for commercial, corporate, and upscale residential applications.

### FEATURES

- Natural and vivid precision LED CCT tuning
- Increased field angle for reduced scalloping
- Low ceiling and close-to-wall applications
- Integral patterned tempered trim lens included standard
- Compatible with a wide range of accessories
- 5 year WAC Lighting product warranty

### ORDERING NUMBER

Model	Beam	Lumens Ref Output*	CBCP	Color Temp	CRI	Finishes	Reflector/Trim			
 <b>R2RD1T Round Trim</b> <b>R2SD1T Square Trim</b>	<b>N</b> 25°	Round 815	2345	<b>TWA</b> 1800K-4000K 98	<b>98</b>	<b>Black</b> <b>BK</b> <b>Black/White</b> <b>BKWT</b> <b>Copper Bronze</b> <b>CB</b> <b>Haze</b> <b>HZ</b> <b>Haze/White</b> <b>HZWT</b> <b>White</b> <b>WT</b>	<b>Round</b> <b>Square</b> <b>Round</b> <b>Square</b> <b>Round</b> <b>Square</b> <b>Round</b> <b>Square</b> <b>Round</b> <b>Square</b>			
	<b>F</b> 35°	Round 800	1740							
		Square 1085	2365							
	<b>W</b> 45°	Round 630	1050							
		Square 745	1240							
	<b>N</b> 25°	Round 755	3115	<b>TWB</b> 2700K-6500K 98						
		Square 880	3630							
	<b>F</b> 35°	Round 845	2280							
		Square 1150	3105							
	<b>W</b> 45°	Round 680	1270							
		Square 805	1500							

Example: R2SD1T-NTWA-WT

\*Reference output shows TWA/TWB trim tuned to 3000K with 22 housing. Use multiplier table below to determine the output for other combinations.

Lumens & CBCP Multiplier		Color Temperature					
TWA (1800K-4000K)	Housing Power Level	1800K	2200K	2700K	3000K	3500K	4000K
	<b>22 (22W)</b>	0.68	0.82	0.94	1.00	1.07	1.11
	<b>15 (15W)</b>	0.46	0.56	0.64	0.68	0.73	0.75
TWB (2700K-6500K)	Housing Power Level	2700K	3000K	3500K	4000K	5000K	6500K
	<b>22 (22W)</b>	0.96	1.00	1.06	1.09	1.12	1.11
	<b>15 (15W)</b>	0.65	0.68	0.72	0.74	0.76	0.75

Example: R2SD1T-NTWA-WT tuned to 4000K with 22 housing: 950 lm (Reference Output) x 1.11 (Multiplier) = 1055 lm

2730 CBCP (Reference Output) x 1.11 (Multiplier) = 3030 CBCP

Please see next page for housing units (required)

waclighting.com	Headquarters, East Manufacturing Facility	South East Manufacturing Facility	Central Manufacturing Facility	West Manufacturing Facility
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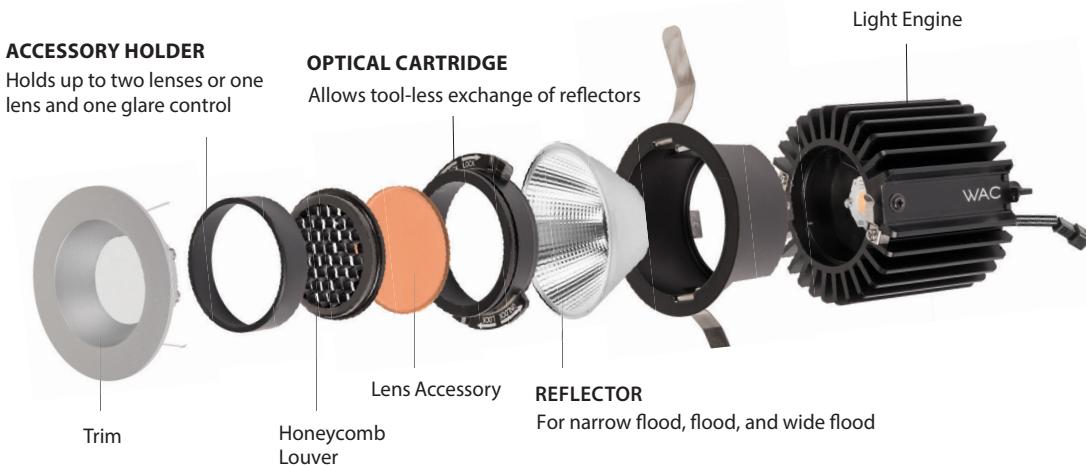
Housing (Required)	Model	Trim Type	Power	Driver
New Construction, Airtight	<b>R2RN</b> Round	<b>T</b> Trim <b>L</b> Invisible Trim	<b>15</b> 15W IC <b>22</b> 22W Non-IC	<b>T-X</b> DMX512-A <b>T-Z</b> 2CH 0-10V
Remodel, Non-IC	<b>R2BR</b> Round & Square	<b>T</b> Trim	<b>15</b> 15W Non-IC <b>22</b> 22W Non-IC	<b>T-X</b> DMX512-A <b>T-Z</b> 2CH 0-10V
		<b>L</b> Invisible Trim		
	<b>R2RR</b> Round			
	<b>R2SR</b> Square			

R2\_\_\_\_\_ -  
Example: **R2RNT-15T-X**

### WOOD AND METAL CEILING ADAPTERS (For use with new construction housings)

Round	Square
<b>R2R-ADP1</b> ½" to 1" ceiling thickness	<b>R2S-ADP1</b> ½" to 1" ceiling thickness
<b>R2R-ADP2</b> 1" to 1½" ceiling thickness	<b>R2S-ADP2</b> 1" to 1½" ceiling thickness

### FIELD CHANGEABLE GLARE CONTROL AND OPTIC SYSTEM



**ACCESSORY HOLDER** sold separately

<b>LENS-16-HLD</b>	Required for use with any lens or accessory
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### GLARE CONTROL ACCESSORIES

<b>LENS-16</b>	<b>HCM</b> <b>CRL</b>	Honeycomb Louver Cross Louver
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### INTERCHANGEABLE REFLECTORS

<b>REF-R2-N</b>	Narrow Flood beam
<b>REF-R2-F</b>	Flood beam
<b>REF-R2-W</b>	Wide beam

### LENS ACCESSORIES

<b>LENS-16</b>	<b>AMB</b> <b>RED</b> <b>FR</b> <b>SPR</b> <b>BEL</b>	Amber Red Frosted Spread Beam Elongating
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### NATURAL TUNABLE WHITE CCT TUNING:

The CCT of the Volta Tunable White fixture may be adjusted.

Using the DMX byte values in the adjacent table mapped to CH1 and CH2 of the desired output, the Volta Tunable White fixture may be tuned in increments of 100K (Kelvin) from 1800K to 4000K for TWA and 2700K to 6500K for TWB, at full intensity.

**Note:** Through compatible RDM tool, fixture channels can be reassigned to desired consecutive channels. Factory default is DMX channel 1 and 2.

### VOLTA 2" TUNABLE WHITE DMX BYTE VALUE VS CCT

CCT (K)	TWA DMX BYTE VALUES AT FULL INTENSITY		TWB DMX BYTE VALUES AT FULL INTENSITY	
	CH 1: INTENSITY	CH 2: CCT	CH 1: INTENSITY	CH 2: CCT
4000	255	255	6500	255
3900	255	253	6400	255
3800	255	247	6300	255
3700	255	241	6200	255
3600	255	233	6100	255
3500	255	225	6000	255
3400	255	219	5900	255
3300	255	210	5800	255
3200	255	202	5700	255
3100	255	193	5600	255
3000	255	185	5500	255
2900	255	176	5400	255
2800	255	166	5300	255
2700	255	154	5200	255
2600	255	141	5100	255
2500	255	126	5000	255
2400	255	109	4900	255
2300	255	82	4800	255
2200	255	79	4700	255
2100	255	64	4600	255
2000	255	46	4500	255
1900	255	26	4400	255
1800	255	0	4300	255
			4200	255
			4100	255
			4000	255
			3900	255
			3800	255
			3700	255
			3600	255
			3500	255
			3400	255
			3300	255
			3200	255
			3100	255
			3000	255
			2900	255
			2800	255
			2700	255